



## INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

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<b>(21) International Application Number:</b> PCT/US96/14756 <b>(22) International Filing Date:</b> 16 September 1996 (16.09.96) <b>(30) Priority Data:</b> 08/624,771 27 March 1996 (27.03.96) US <b>(71) Applicant:</b> WISCONSIN ALUMNI RESEARCH FOUNDATION [US/US]; 614 Walnut Street, Madison, WI 53705 (US). <b>(72) Inventors:</b> JOHNSON, Eric, A.; 3901 Council Crest, Madison, WI 53711 (US). GOODNOUGH, Michael, C.; 2097 Spring Road, Stoughton, WI 53589 (US). <b>(74) Agents:</b> KRYSHAK, Thad et al.; Quarles & Brady, 411 East Wisconsin Avenue, Milwaukee, WI 53202-4497 (US).		<b>(81) Designated States:</b> AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, UZ, VN, ARIPO patent (KE, LS, MW, SD, SZ, UG), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG).  <b>Published</b> <i>With international search report.</i>
<b>(54) Title:</b> PHARMACEUTICAL COMPOSITIONS OF BOTULINUM TOXIN OR BOTULINUM NEUROTOXIN AND METHODS OF PREPARATION  <b>(57) Abstract</b>  Lyophilized pharmaceutical compositions containing botulinum toxin or botulinum neurotoxin and effective amounts of trehalose and methionine have a shelf life of up to 4 months or more at room temperature and above.		